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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>5247069</u>	September 1993	Ledbetter et al.	530/350
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<input type="checkbox"/>	<u>5677165</u>	October 1997	DeBoer et al.	
<input type="checkbox"/>	<u>5747037</u>	May 1998	Noelle et al.	
<input type="checkbox"/>	<u>5869049</u>	February 1999	Noelle et al.	

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FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
9308207	April 1993	WO	

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Stuber et al. J Exp Med. 183: 693-698 (1996).*

Gray et al. J Exp Med. 180: 141-155 (1994).

ART-UNIT: 164

PRIMARY-EXAMINER: Gambel; Phillip

ATTY-AGENT-FIRM: Henry; Janis C.

ABSTRACT:

There is disclosed a polypeptide (CD40-L) and DNA sequences, vectors and transformed host cells useful in providing CD40-L polypeptides. More particularly, this invention provides isolated human and murine CD40-L polypeptides that bind to the extracellular binding region of a CD40 receptor. Also disclosed are methods of inhibiting undesirable immune responses, preventing T cell interaction with B cells by blocking CD40L binding to CD40 sites on B cells and other target cells.

2 Claims, 31 Drawing figures



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L6: Entry 16 of 19

File: USPT

Jul 24, 2001

US-PAT-NO: 6264951

DOCUMENT-IDENTIFIER: US 6264951 B1

TITLE: Methods of inhibiting CD40L binding to CD40 with soluble monomeric CD40L

DATE-ISSUED: July 24, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Armitage; Richard J.	Bainbridge Island	WA		
Fanslow; William C.	Federal Way	WA		
Spriggs; Melanie K.	Seattle	WA		
Srinivasan; Subhashini	Kirkland	WA		
Gibson; Marylou G.	Carlsbad	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Immunex Corporation	Seattle	WA			02

APPL-NO: 08/ 769819 [PALM]

DATE FILED: December 19, 1996

PARENT-CASE:

CROSS REFERENCE TO RELATED APPLICATION This application is a divisional of U.S. patent application Ser. No. 08/484,624, filed Jun. 7, 1995, now U.S. Pat. No. 5,962,406 which is a continuation-in-part application of U.S. patent application Ser. No. 08/249,189, filed May 24, 1994, now U.S. Pat. No. 5,961,974, which is a continuation-in-part of U.S. patent application Ser. No. 07/969,703, filed Oct. 23, 1992, now abandoned, which is a continuation-in-part of U.S. patent application Ser. No. 07/805,723, filed on Dec. 5, 1991, now abandoned, which is a continuation-in-part of U.S. patent application Ser. No. 07,783,707, filed on Oct. 25, 1991, now abandoned.

INT-CL: [07] A61 K 38/17, A61 K 38/19, C07 K 14/47, C07 K 14/52

US-CL-ISSUED: 424/184.1; 424/185.1, 424/85.1, 514/2, 514/8, 514/12, 514/885, 530/350, 530/351

US-CL-CURRENT: 424/184.1; 424/185.1, 424/85.1, 514/12, 514/2, 514/8, 514/885, 530/350, 530/351

FIELD-OF-SEARCH: 514/2, 514/8, 514/12, 514/885, 424/130.1, 424/133.1, 424/141.1, 424/144.1, 424/153.1, 424/154.1, 424/173.1, 424/134.1, 424/184.1, 424/185.1, 424/85.1, 530/350, 530/351

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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L6: Entry 16 of 19

File: USPT

Jul 24, 2001

DOCUMENT-IDENTIFIER: US 6264951 B1

TITLE: Methods of inhibiting CD40L binding to CD40 with soluble monomeric CD40L

Abstract Text (1):

There is disclosed a polypeptide (CD40-L) and DNA sequences, vectors and transformed host cells useful in providing CD40-L polypeptides. More particularly, this invention provides isolated human and murine CD40-L polypeptides that bind to the extracellular binding region of a CD40 receptor. Also disclosed are methods of inhibiting undesirable immune responses, preventing T cell interaction with B cells by blocking CD40L binding to CD40 sites on B cells and other target cells.

Detailed Description Text (161):

A similar CD40-L construct was made without an amino terminal FLAG.TM. sequence. This construct utilized an existing Bam HI site at nucleotide 351 in the CD40-L sequence and the downstream PCR oligonucleotide primer described above (SEQ ID NO:19). After amplification of the CD40 sequence with a 5' upstream oligonucleotide homologous to CD40-L nucleotides 324-346, and the downstream primer which introduced a Not I site, the PCR product was cut with Bam HI and Not I and ligated into pAcGP67A cut with Bam HI and NotI. This construct was cotransfected into SF21 cells along with viral DNA as previously described, and recombinant virus was plaque purified, expanded and used to infect insect cells to produce serum free conditioned supernatants. CD40-L was detectable in these crude supernatants by both CD40Fc receptor binding assay and by detection of an 18 Kd band on a Coomassie Blue-stained PAGE. Similar constructs were also prepared for human CD40-L.

C07K016/40 A61K038/17.

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Term	Documents
"18"	4602590
18S	2822
KDA	22034
KDAS	13
KD	27918
KDS	367
(5 AND ((KDA OR KD) SAME "18")).USPT,PGPB,JPAB,EPAB,DWPI.	19
(L5 AND (18)SAME(KDA OR KD)).USPT,PGPB,JPAB,EPAB,DWPI.	19

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Term	Documents
"18"	4602590
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- ☐ 1. [20030104558](#). 23 Aug 02. 05 Jun 03. Secreted and transmembrane polypeptides and nucleic acids encoding the same. Ashkenazi, Avi J., et al. 435/69.1; 435/183 435/320.1 435/325 530/350 536/23.2 C12P021/02 C12N005/06 C07K014/435 C07H021/04 C12N009/00.
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- ☐ 2. [20030099642](#). 29 Jun 99. 29 May 03. THERAPEUTIC APPLICATIONS FOR THE ANTI-T-BAM (CD40L) MONOCLONAL ANTIBODY 5C8 IN THE TREATMENT OF VASCULITIS. YELLIN, MICHAEL J., et al. 424/144.1; A61K039/395.
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- ☐ 9. [20020197702](#). 26 Mar 02. 26 Dec 02. Membrane derived caspase-3, compositions comprising the same and methods of use therefor. Krebs, Joseph F., et al. 435/226; 435/252.3 435/254.2 435/320.1 435/325 435/348 435/69.1 536/23.2 C12N009/64 C07H021/04 C12N001/18 C12N005/06 C12P021/02 C12N001/21.
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- ☐ 11. [20020165166](#). 30 Nov 01. 07 Nov 02. Compounds and methods for the modulation of CD154. Yan, Yibing, et al. 514/19; 206/528 562/623 A61K038/05 C07C259/04 B65D083/04.
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- ☐ 19. [5359039](#). 09 Jul 93; 25 Oct 94. Isolated poxvirus A53R-equivalent tumor necrosis factor antagonists. Smith; Craig A., et al. 530/350; 424/186.1 424/232.1 530/826 536/23.72 930/220. C07K013/00 C07K015/04.
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Set	Items	Description
S1	1357	E1-E47
S2	19	S1 AND CD40L
S3	8	RD S2 (unique items)
S4	5	(CD40L OR CD40(W)LIGAND) (10N) (18(W)KD OR 18(W)KDA)
S5	2	RD S4 (unique items)
S6	23	(CD40L OR CD40(W)LIGAND) AND (18(W)KD OR 18(W)KDA)
S7	9	RD S6 (unique items)
S8	467	(SOLUBLE(W)CD40L OR SOLUBLE(W)CD40(W)LIGAND)
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S11	3	(CD40L OR CD40(W)LIGAND) AND (18(W)KD OR 18(W)KDA) (10N) (BL- OCK? OR INHIBIT? OR SUPPRESS? OR PREVENT?)
S12	1	RD S11 (unique items)
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